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(54) Title: NOVEL CRYSTALLINE FORMS OF CANDESARTAN CILEXETIL

(57) Abstract: The present invention relates to two novel crystalline forms and a novel 1,4-dioxane solvate of candesartan cilexetil, to processes for their preparation and to pharmaceutical compositions containing them.



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International application No. PCT/IN 03/00090-0

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-	ASSIFICATION OF SUBJECT MATTER						
IPC ⁷ : C	:07D 403/10, 235/26, 257/04, A61K 31/	4166					
According	to International Patent Classification (IPC) or to both nat	tional classification and IPC					
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l _	documentation searched (classification system followed b	by classification symbols)					
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Electronic	data base consulted during the international search (name	e of data base and, where practicable searc	th terms used)				
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REGIS	STRY, CAPLUS						
C. DO	CUMENTS CONSIDERED TO BE RELEVANT						
Category	Citation of document, with indication, where appropriate	e, of the relevant passages	Relevant to claim No.				
X	US 5196444 A (Naka, Takehiko; Nishil	kawa, Kohei; Kato, Takeshi.	1-20				
Ì	Takeda Chemical Industries, Ltd., Japa	an) 23 March 1993					
	(23.03.93); cited in the application						
	abstract; experimental example I, fig.1	; claims 1-5,9.					
X	 Matsunaga, Hirokazu; Eguchi, Taro; N	ishijima Koji: Enomoto	1-12				
^	Toshio; Sasaoki, Kazumichi; Nakamur		1-12				
	characterization of candesartan cilexetil (TCV-116): crystal						
	structure and molecular mobility" Cher						
1	Bulletin (1999), 47(2), 182-186; cited in						
	abstract; chart 2, fig. 2.						
	ED 0000070 AQ /Talanda Obamical Ind	trictuics (td. lonon)	1-20				
Α	EP 0668272 A2 (Takeda Chemical Ind 23 August 1995 (23.08.95)	iustries, Ltd., Japan)	1-20				
	examples 1,3; claims 12, 18-20.						
	Champios 1,0, diamie 12, 10 20.		·				
Α	EP 0881212 A1 (Takeda Chemical Inc	dustries, Ltd., Japan)	1-20				
	2 December 1998 (02.12.98)						
ŀ	abstract, reference examples 10-12.						
			<u> </u>				
☐ Fur	ther documents are listed in the continuation of Box C.	See patent family annex.					
* Speci	al categories of cited documents:	"T" later document published after the internal					
consi	"A" document defining the general state of the art which is not considered to be of particular relevance the principle or theory underlying the invention						
"E" earlie filing	r application or patent but published on or after the international	"X" document of particular relevance; the claim considered novel or cannot be considered					
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specia	al reason (as specified)	considered to involve an inventive step w	hen the document is				
"O" document referring to an oral disclosure, use, exhibition or other means combined with one or more other such documents, such combination being obvious to a person skilled in the art							
	ment published prior to the international filing date but later than riority date claimed	"&" document member of the same patent fan	nily				
	the actual completion of the international search	Date of mailing of the international searc	h report				
	12 August 2003 (12.08.2003)	11 September 2003 (11.09.2003)					
	nd mailing adress of the ISA/AT	Authorized officer					
	an Patent Office	MÜLLER-HIEL R.					
1	ner Straße 87, A-1200 Vienna	Telephone No. 1/53424/434					
	le No. 1/53424/535 CT/ISA/210 (second sheet) (July 1998)	receptione no. 1/33-2-14-34	 -				



International application No. PCT/IN 03/00090-0

Information on patent family members

BR 73 668272 13-09-2000 AT E 194603 15-07-2000 BP A2 668272 23-08-1995 CA AA Z141178 22-07-1995 BP A3 668272 12-07-2000 BR 73 303464 29-12-2000 GR 73 303464 29-12-1998 GR 73 6882231 GR 73 73 74			Patent in s	document cited search report	Publication date	P	atent fa membe	amily r(s)	Publication date
BP A2 688272 23-08-1995 CA AA 2141175 29-07-1995 EP A3 688272 31-08-1995 DE CO 69817832 17-08-2000 FP T S 688272 12-07-2000 DE T2 68917832 17-08-2000 FP T T 688272 12-07-2000 DE T2 68917832 17-08-2000 FP T T 688272 11-08-2000 DE T2 68917832 17-08-2000 FP A2 7252251 03-10-2000 FP A2 7252251 03-10-1995 FP A2 7252251 03-10	1		m2	668272	18-09-2000	AT	E	194603	15-07-2000
### A3 668272 12-07-2000 BE 72 68517832 91-13-000 ### B9 16 668272 12-07-2000 BE 72 68517832 91-13-000 ### T	1								29-07-1995
BP 1.	1								17-08-2000
### T 668272 31-10-2000 ES T3 2147788 01-10-2000 FR 73 3034464						DE	T2	69517832	09-11-2000
GR 73 3034464 27-12-1958	1					ES	T3	2147798	
Section Sect	1		-	••••		GR	т3	3034464	
SE A 5579733 26-11-1996 N 5 5779733 26-11-1996 N 5 5763619 90-61-1998 N 5 5763619 N 5 57636						JP	A2	7252251	
S	ļ								
SF A1	1								
EP A1 881212 02-12-1998 AT E 207980 15-11-2001 EP 21 881212 31-10-2001 CA AA 2238427 26-11-1998 DE C0 69802231 16-05-2002 1	1								
BE A1 881212 31-10-2001 CA AA 2238427 26-11-1998 CA A1 2238427 26-12-2001 DE CO 69802231 06-12-2001 DE CO 69802231 16-12-2009 DE CO 69802231 16-12-2009 DE CO 6980231 16-12-2009 DE CO 6980231 16-12-2009 DE CO 6980231 16-12-2009 DE CO 6980231 16-12-2001 DE CO 6980231 DE CO 6980231 16-12-2001 DE CO 6980231 DE CO 698023 DE CO 698	1								
CN A 1203223 30-12-1998 DE CO 69802231 16-05-2002 ES T3 2(26367 16-02-2001) DE T2 69802231 16-05-2002 ES T3 2(26237 16-05-2002) JP A2 11043474 16-02-1998 JP B2 3003030 20-02-1990 DE B2 3003030 20-02-1990 DE B2 3003030 20-02-1990 AV B 146773 15-01-1997 AV B 146773 15-01-1997 AV B 146773 15-01-1997 AV B 146749 22-03-1994 BR A3 1100710 23-11-1991 AV B 2647469 22-10-1991 CA A2 2040955 03-02-1994 BR A3 1100710 23-11-1999 CA A3 2040955 03-02-1994 BR A3 1100710 23-11-1999 CA A4 2040955 03-02-1998 CA C 2040955 03-02-1998 CA A 147515 16-01-1997 CN B 104446 16-02-1997 CN B 104446 17-04-1997 CN B 104446 17-04-1997 DE T2 69123784 17-02-1997 DE T2 69123784 17-04-1997 DE T2	1								
DE CO 69802231 06-12-2001 DE 72 69802231 16-05-2002 ES 73 2162367 16-12-2001 JFP A2 11043474 DFP B2 3003030 24-01-2000 US A 5196444 23-03-1993 AT E 1467757 15-01-1991 US A 5196444 23-03-1993 AT E 1467757 15-01-1991 AD B2 647469 24-01-1991 AD B2 647469 24-02-11991 BR A3 1100710 23-11-1991 CA A 2040955 28-01-1991 CA A 2040955 28-01-1991 CA A 2040955 28-01-1991 CA A 2040955 03-02-1998 CA C 204095 18-12-2001 CN A 1167527 CO CN A 105927 18-12-2001 CN A 105927 06-12-2001 CN A 1147535 16-04-1991 CN A 1147535 16-04-1991 DE C0 69123784 06-02-1997 DE C1 69123784 06-02-1997 DE C2 69123784 06-02-1997 DE C2 69133149 13-03-2003 DK 73 499136 28-03-2002 DE C3 69133149 13-03-2003 DK 73 499136 19-12-2002 DE M2 69133149 13-03-2003 DK 73 499136 28-03-2002 DE FP B1 499136 27-12-1996 DF FP B1 499136 22-04-1991 DF T1 A0 911936 22-04-1991 DF T2 A0 911936 22-04-1991 DF T1 A0 911936 22-04-1991 DF T2 A0 911936 22-04-1991 DF T2 A0 911936 22-04-1991 DF T1 A0 911936 22-04-1991 DF T1 A0 911936 22-04-1991 DF T2 A0 911956 22-04-1991 DF		EΡ	B1	881212	31-10-2001				ı
DE T2 69802231 16-05-2002	1								
ES T3 2162367 16-12-2001 JP A2 11043474 16-02-1999 JF B2 3003030 24-01-2000 US BA 6177567 32-01-2001 US A 5196444 23-03-1993 AT E 1467759 15-01-1997 AT E 227072 15-01-1997 AT E 2370791 15-11-2002 AN BA 6177567 15-01-1997 AN BA 75331/91 21-11-1902 AN BA 617757 15-01-1997 AN BA 75331/91 21-11-1902 AN BA 2040955 28-10-11991 CA AA 2040955 28-10-11991 CA AA 2040955 28-10-11991 CA AA 2040955 28-10-1991 CA AA 2040955 28-10-1991 CA A 1055927 06-11-1991 CA A 1055927 06-11-1991 CA A 1147515 16-04-1997 CN B 1044866 15-01-2000 CN B 1048466 15-01-2000 CN B 1048466 15-01-2000 CN B 1048466 15-01-1997 CN B 1048466 28-01-1997 CN B 1048466 28-01-1997 CN B 1048466 15-01-1997 CN B 1048466 15-01-1997 CN B 1048466 15-01-1997 CN B 1048466 15-01-1997 CN B 1048466 16-01-1997 CN B 1048466	1						-		1
OF N	1								
US A 5196444 23-03-1993									
US A 5196444 23-03-1993 An E 146779 15-01-1997 An E 127709 15-11-2002 An A 175331/91 21-11-1991 AD B2 647469 24-03-1994 BR A3 1100710 23-11-1999 CA AA 2040955 28-10-1991 CA AA 2040955 28-10-1991 CA AA 2040955 28-10-1991 CA C 2040955 38-02-1991 CA AA 2040955 28-10-1991 CA AA 2040955 28-10-1991 CA AA 2040955 28-10-1991 CA AA 2040955 28-10-1991 CA AA 204095 38-20-10-1991 CA AA 204095 28-10-1991 CA 204095 28-10-1991 CA 204095 28-10-1991 CA 204095 28-10-1991 CA 2									24-01-2000
AT B 227709 15-11-2002 AU AI 75331/91 BR A3 1100710 23-11-11999 CA AA 2040955 28-10-1991 CA C 2040955 30-02-1998 CA C 2040955 30-02-1998 CA C 2040955 30-02-1998 CA AI 75531/91 CA AI 147515 16-04-1997 CA AI 147516 16-04-1997 CA AI 147516 16-04-1997 C	1						BA		23-01-2001
AT E 227709 15-11-2002 AU Al 75331/91 21-11-1991 AU B2 647469 22-03-1994 BR A3 1100710 23-11-1999 CA AA 2040955 28-10-1991 CA CA C 2040955 303-02-1998 CA C 2040955 303-02-1999 CA AA 114732 613-12-200 CA B 1055926 616-02-1997 CA AA 114732 613-12-200 CA B 1058966 29-11-2000 CA B 1058966 19-01-2000 CA B 105896 19-01-2000 CA 105	ì	715	Δ_	5196444	23-03-1993	AT	E	146779	15-01-1997
AUT B2 647469 24-03-1994 BBR A3 1100710 23-11-1999 CA AA 2040955 33-02-1998 CA C 2040955 33-02-19998 CA C 2040955 33-02-19999 CA A 2040955 33-02-19999 CA A 2040955 33-10-19994 CA A 2040955 33-10-19994 CA C 2040955 33-10-19994 CA A 1047513 16-04-1997 CA A 1147513 16-04-1997 CA A 1147513 16-04-1997 CA B 1058966 29-11-2000 CA B 1058966 19-12-1997 CA C 104-1997 CA C 104-199	1	Ų.S							
BR A3 1100710	1								
CA AA 2040955 28-10-1991 CA CA C 2040955 03-02-1998 CA C 204095 03-02-19998 CA C 204095 03-02-1997 CN A 1147515 16-04-1997 CN B 1058966 19-01-2000 CN B 1058966 29-11-2000 CN B 1058966 29-11-2000 CN B 1058966 29-11-2000 DE CO 69123784 17-04-1997 DE IZ 19875004 28-03-2002 DE TZ 69133149 11-03-2003 DE TZ 69133149 119-12-2002 DE TZ 69133149 13-03-2003 DK T3 459136 01-04-1997 DK T3 720982 17-03-2003 DK T3 459136 01-04-1997 DK T3 720982 17-03-2003 DK T3 720982 17-03-2003 DK T3 720982 17-03-2003 DK T3 19136 27-12-1996 DF PB1 459136 27-12-1996 DF PB1 720982 13-11-2002 DF TZ 12-1996 DF TZ 12-1996 13-12-100-1996 DF TZ 13-12-1997 DF TZ 13-12-1998 DF TZ 13-12-12-1998 DF TZ 13-12-12-12-1998 DF TZ 13-12-12-12-12-12-12-12-12-12-12-12-12-12-									
CA C 2040955 03-02-1998 CA C 2204290 18-12-2001 CA N 1055927 06-11-1991 CA N 1147515 16-04-1997 CA N 1147515 16-04-1999 CA N 1147515 16-04-1999 CA N 1147515 16-04-1999 CA N 1147516 16-04-1999 CA N 1									
CA C 204290 18-12-2001 CN A 1055927 06-11-1991 CN A 1147515 16-04-1997 CN B 104846 19-01-2000 CN B 1058966 29-11-2000 CN B 1058966 29-11-2000 CN B 1058966 29-11-2000 DE CO 69123784 06-02-1997 DE 12 19875004 28-03-2002 DE T2 69123784 17-04-1997 DE T2 69133149 13-03-2002 DE T2 69133149 19-12-2002 DE T2 69133149 19-12-2002 DE T2 69133149 10-04-1997 DX T3 72092 17-03-2003 DX T3 459136 01-04-1997 DX T3 72092 17-03-2003 DX T3 459136 04-12-1991 DX T3 72092 17-03-2003 DX T3 459136 10-04-1997 DX T3 72092 17-03-2003 DX T3 459136 10-04-1997 DX T3 72092 10-07-1996 DP DA 1 72092 10-07-1996 DP DA 2009990 16-04-1995 DP DA 200594 11-05-1998 DP DA 2005990 16-04-1995 DP DA 2005990 10-07-1996 DP DA 200590 10-07-1996 DP DA 200590 10-07-1996 DP DA 200590 10	1								
CN A 1055927									
CN A 1147515 16-04-1997 CN B 1048466 19-01-2000 CN B 1058966 29-11-2000 DE CO 69123784 06-02-1997 DE T2 69123784 17-04-1997 DE T2 69123784 19-12-2002 DE CO 69133149 19-12-2002 DE T2 69133149 19-12-2002 DE T2 69133149 19-12-2003 DE T3 720982 17-03-2003 DE T3 720982 17-03-2003 DE T3 720982 17-03-2003 DE P 11 720982 13-11-2002 DE T3 720982 13-01-1991 DE T3 720982 13-03-1997 DE T3 720982 13-01-1991 DE T3 720982 13-03-1997 DE T3 720982 13-03-1999 DE T3 720982 13-10-1999 DE	1								
CN B 1048466 19-01-2000 CN B 1058966 29-11-2000 DE CO 69123784 06-02-1997 DE CO 69123784 17-04-1997 DE T2 69123784 17-04-1997 DE T2 19875004 28-03-2002 DE CO 69133149 19-12-2002 DE CO 69133149 13-03-2003 DK T3 459136 01-04-1997 DK T3 720982 17-03-2003 DK T3 7459136 04-12-1991 DE P A1 459136 04-12-1991 EP A1 720982 10-07-1996 EP B1 459136 27-12-1996 EP B1 720982 13-11-2002 ES T3 2095266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 104814 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A3 5900105 28-06-1995 HU B3 210871 28-08-1995 HU B3 210871 18-08-1999 HU B3 210881 18-08-1999 HU B3 210881 18-08-1999 HU B3 210881 18-08-1999 HU B3 210891 1									
CN B 1058965 29-11-2000 DE CO 69123784 06-02-1997 DE T2 69123784 17-04-1997 DE T2 19975004 28-03-2002 DE CO 69133149 13-03-2003 DE T2 69133149 13-03-2003 DE T2 69133149 13-03-2003 DE T2 69133149 13-03-2003 DE T3 495136 01-04-1997 DK T3 720982 17-03-2003 EF A1 459136 04-12-1991 EF A1 720982 10-07-1996 EF B1 459136 27-12-1996 EF B1 459136 27-12-1996 EF B1 459136 27-12-1996 EF B1 720982 13-11-2002 ES T3 2055266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 28-10-1991 FI A 911936 28-10-1991 FI A 911936 28-10-1991 FI A 91204 28-03-204-1991 FI A 982761 21-12-1998 FI A 0 982761 21-12-1999 FI A									
DE CO 69123784 06-02-1997 DE T2 69123784 17-04-1997 DE T2 69123784 12-04-1997 DE T2 69133149 12-02-2002 DE CO 69133149 13-03-2003 DK T3 459136 01-04-1997 DK T3 459136 01-04-1997 DK T3 459136 04-12-1991 EP A1 459136 04-12-1991 EP A1 459136 04-12-1991 EP A1 459136 04-12-1991 EP B1 459136 27-12-1996 EP B1 459136 27-12-1996 EP B1 459136 27-12-1996 EP B1 72-0982 13-11-2002 ES T3 2095266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 911936 22-04-1991 FI A 911936 22-04-1991 FI A 911936 22-04-1991 FI A 9012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A3 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 213266 28-04-1997 IIL A1 97882 11-01-1991 IIL A1 97882 11-01-1991 IIL A1 97882 11-01-1991 IIL A1 97882 11-01-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-19996 J									
DE T2 69123784 17-04-1997 DE 12 19878004 28-03-2002 DE C0 69133149 19-12-2002 DE T2 69133149 13-03-2003 DK T3 459136 01-04-1997 DK T3 720982 17-03-2003 EFP A1 459136 04-12-1991 EPP A1 720982 10-07-1996 EPP B1 459136 27-12-1996 EPP B1 720982 13-11-2002 ES T3 2095266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 911936 28-10-1991 FI A 912761 21-12-1998 FI A0 982761 21-12-1998 FI A0 98282 12-06-1995 HU A0 911347 28-08-1995 HU A0 9500105 28-06-1995 HU B0 213266 28-04-1997 FI E A1 911317 06-11-1991 FI A1 97882 14-01-1996 FI A1 97882 11-06-1999 FI A1 97882 11-05-1998 FI A1 97882 11-05-1999 FI A1 97									
DE 12 19875004 28-03-2002 DE C0 69133149 19-12-2002 DE T2 69133149 13-03-2003 DK T3 459136 01-04-1997 DK T3 720982 17-03-2003 EF A1 459136 04-12-1991 EF A1 720982 10-07-1996 EF B1 720982 10-07-1996 EF B1 720982 13-11-2002 ES T3 2095266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 911936 22-04-1991 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 092761 21-12-1998 FI A 092761 21-13-1998 FI A 092761 21-13-1998 FI A 092761 21-12-1998 FI A 09500105 28-06-1995 FI A 100803 01-05-1998 FI A 100803 01-05-1998 FI A 100803 01-05-1998 FI A 100803 01-05-1998 FI A 100803 01-05-1999 FI A 28-08-1995 FI A 28-08-1995 FI A 28-08-1995 FI A 38-28-10-1991 FI A 100803 11-05-1998 FI A 100803 11-05-19									
DE CO 69133149 19-12-2002 DE T2 69133149 13-03-2003 DK T3 459136 01-04-1997 DK T3 720982 17-03-2003 EF A1 75982 17-03-2003 EF A1 720982 10-07-1996 EF B1 720982 10-07-1996 EF B1 720982 13-11-2002 ES T3 2055266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 911936 22-04-1991 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 1008403 01-05-1998 FI A 20012172 09-11-2001 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 97882 14-11-1996 JF B2 2514282 10-07-1996 JF B2 2514282 10-07-1996 JF B2 2514282 10-07-1996 JF B2 2514282 10-07-1996 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A 10258 20-04-1995 NO A 911586 22-04-1995 NO A 911586 22-04-1995 NO A 970195 16-01-1994									
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DK T3 459136 01-04-1997 DK T3 720992 17-03-2003 EP A1 459136 04-12-1991 EP A1 720982 10-07-1996 EP B1 720982 13-11-2002 EP B1									13-03-2003
EP A1 459136 04-12-1991 EP A1 720982 10-07-1996 EP B1 459136 27-12-1996 EP B1 720982 13-11-2002 ES T3 2095266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 911936 22-04-1991 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A3 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 14-01-1991 IL A1 97882 14-01-1991 IL A1 97882 14-01-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1996 JP B2 2853611 03-02-1999 KR B1 20054 11-05-1998 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU AP 90224 11-05-1998 LU A P 90224 11-05-1998 LU A P 90224 11-05-1998 LU A P 90224 11-05-1998 LU B 10258 20-01-1991 NO A 971095 16-01-1997							Т3		01-04-1997
Fig. Al.						DK	Т3	720982	17-03-2003
EP B1 459136 27-12-1996 EP B1 720982 13-11-2002 ES T3 2095266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 911936 28-10-1991 FI A 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B3 210871 28-08-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 FI A1 911317 06-11-1997 FI A1 97882 14-11-1996 FI A2 8099960 16-04-1996 FI A2 8099960 16-04-1996 FI A3 9500105 16-04-1996 FI A3 990224 11-05-1999 FI B 2 2553611 03-02-1999 FI B 2 2853611 03-02-1999 FI B 3246 25-04-1995 FI B 3246 25-0						EP	A1		
EP B1 720982 13-11-2002 ES T3 2095266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 911936 22-04-1991 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU B3 210871 28-08-1995 HU B3 210871 28-08-1995 HU B3 210871 28-08-1995 FI A1 97882 14-11-1996 FI A2 8099960 16-04-1996 FI A3 97882 14-11-1996 FI A3 97882 14-11-1996 FI A4 38 25-10-1996 FI A5 3246 25-04-1995 FI A6 3246 25-04-1995 FI A 33246 25-04-1995 FI A 33246 25-04-1996 FI A 343 25-10-1998 FI A 343 25-10-1998 FI A 3246 25-04-1995 FI A 348 25-11-1997 FI A 348 25-11-1997 FI A 348 25-11-1997 FI A 348	ľ					EP			
ES T3 2095266 16-02-1997 ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 911936 22-04-1991 FI A 911936 22-10-1991 FI A 982761 21-12-1998 FI A0 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU B2 210871 28-06-1995 HU B3 210871 28-06-1995 HU B3 210871 28-06-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP B2 2853611 03-02-1999 RR B1 200541 15-06-1999 RR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LU A 10258 20-04-1995 NO A0 911586 22-04-1995 NO A0 911586 22-04-1995									
ES T3 2181742 01-03-2003 FI A0 911936 22-04-1991 FI A 911936 28-10-1991 FI A 912761 21-12-1998 FI A 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A2 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B3 210871 28-08-1995 HU B3 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 11-1991 IL A0 97882 14-11-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 RR B1 200541 15-06-1999 RR B1 200541 15-06-1999 RR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LU B 10258 20-04-1995 NO A0 911586 22-04-1995 NO A0 911586 22-04-1991	İ								
FI A0 911936					•				
FI A 911936 28-10-1991 FI A 982761 21-12-1998 FI A0 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LU A 10258 20-04-1995 LU A 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997	ŀ								
FT A 982761 21-12-1998 FI AO 982761 21-12-1998 FI AO 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU AO 911347 28-10-1991 HU AO 911347 28-10-1991 HU AC 57736 30-12-1991 HU AC 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B2 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP A2 8099960 16-04-1996 JP B2 2514282 10-07-1996 JP B2 2553611 03-02-1999 KR B1 200541 15-06-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LU A 10258 20-10-1994 LV B 10258 20-10-1994 LV B 10258 20-10-1995 NO AO 911586 28-10-1991 NO A 971095 16-01-1997	ł								
FI A0 982761 21-12-1998 FI A 20012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A2 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997	1								
FI A 20012172 09-11-2001 FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A3 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 21-06-1992 IL A1 97882 14-11-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-1996 JP B2 2553611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997									
FI B1 108434 31-01-2002 GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A2 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997									
GR T3 3022172 31-03-1997 HK A1 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 57736 30-12-1991 HU A2 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP A2 8099960 16-04-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-10-1994 LV B 10258 20-10-1994 LV B 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1995 NO A 970195 16-01-1997	1								
HK Al 1000803 01-05-1998 HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU A2 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B3 213266 28-04-1997 IE Al 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP A2 8099960 16-04-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A 911586 22-04-1991 NO A 970195 16-01-1997									
HU A0 911347 28-10-1991 HU A2 57736 30-12-1991 HU AC 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP A2 8099960 16-04-1996 JP B2 2514282 10-07-1996 JP B2 2514282 10-07-1996 JP B2 2553611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 971095 16-01-1997	1								
HU AC 9500105 28-06-1995 HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP A2 8099960 16-04-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 28-10-1991 NO A 970195 16-01-1997	1						A0		
HU A3 9500105 28-06-1995 HU B3 210871 28-08-1995 HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP A2 8099960 16-04-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997	1								
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HU B 213266 28-04-1997 IE A1 911317 06-11-1991 IL A0 97882 21-06-1992 IL A1 97882 14-11-1996 JP A2 8099960 16-04-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997	ł								
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IL A1 97882 14-11-1996 JP A2 8099960 16-04-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997	ĺ								
JP A2 8099960 16-04-1996 JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997	1								
JP B2 2514282 10-07-1996 JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997	İ								
JP B2 2853611 03-02-1999 KR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997									
RR B1 200541 15-06-1999 LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997									
LT A 438 25-10-1994 LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 970195 16-01-1997	ĺ								
LT B 3246 25-04-1995 LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 911586 28-10-1991 NO A 970195 16-01-1997									
LU A9 90224 11-05-1998 LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 911586 28-10-1991 NO A 970195 16-01-1997	ļ								25-04-1995
LV A 10258 20-10-1994 LV B 10258 20-04-1995 NO A0 911586 22-04-1991 NO A 911586 28-10-1991 NO A 970195 16-01-1997	1			•					
NO AO 911586 22-04-1991 NO A 911586 28-10-1991 NO A 970195 16-01-1997	ı								
NO A 911586 28-10-1991 NO A 970195 16-01-1997	1								
NO A 970195 16-01-1997	l ·								
	1								
NO AO 970195 16-01-1997	l								
	-					МО	0A	970195	16-01-1997



Information on patent family members

International application No. PCT/IN 03/00090-0

Patent document cited in search report	Publication date		Patent f memb		Publication date
		NO	B1	300923	18-08-1997
		NO	В1	302752	20-04-1998
		NZ	A	237949	26-07-1995
		PT	A	97451	31-01-1992
		PT	В	97451	31-01-1997
		RU	C1	2052455	20-01-1996
		SG	A1	67903	19-10-1999
		US	A	5328919	12-07-1994
		บร	A	5401764	28-03-1995
		US	A	5703110	30-12-1997
		US	A	5705517	06-01-1998
		US	A	5962491	05-10-1999
		υs	A	6004989	21-12-1999
		US	BA	6232334	15-05-2001
		US	AA	01047020	29-11-2001
		US	BB	6355808	12-03-2002
		US	AA	02151723	17-10-2002
		US	BB	6608210	19-08-2003
		ZA	A	9102983	29-01-1992
		JP	A2	4364171	16-12-1992
•		EE	B1	2980	15-04-1997
		cs	EA	9103239	15-07-1992
		CZ	В6	289405	16-01-2002
		MX	A1	9101736	02-03-1993
		PL	A1	292174	13-07-1992
		PL	B1	168958	31-05-1996
		$_{ m PL}$	B1	169451	31-07-1996
		РL	B1	170324	29-11-1996
		SK	В6	282473	05-02-2002
		US	BA	6368818	09-04-2002
		J₽	A2	4092035	25-03-1992
		JР	В2	2776014	16-07-1998
		PL	В1	169116	28-06-1996
		ŪΑ	A5		12-11-2001
		CA	AA	2407112	08-11-2001
		EP	A2	1294922	26-03-2003
		WO	A2	00182780	08-11-2001
		WO	АЗ	00182780	24-01-2002
		US	AA	02086345	04-07-2002
		US	BA	6376525	23-04-2002
		us	AA	02143042	03-10-2002
		CN	A	1299876	20-06-2001
		CN	В	1112447	25-06-2003
		CN	A	1275404	06-12-2000